

82052-4

8/13/2014

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
CHEMICAL SAFETY AND
POLLUTION PREVENTION

Sue MacIntosh
Cutting Edge Formulations, Inc.
3057 Summer Oak Place
Buford, GA 30518

AUG 13 2014

Subject: Label Amendment – Multiple Label Revisions
Avenger AG Burndown Herbicide
EPA Reg. No. 82052-4
Application dated – January 23, 2014

Dear Ms. MacIntosh:

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

If you have any questions regarding this letter, please contact Maggie Rudick at (703) 347-0257 or rudick.maggie@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Kable Bo Davis", with a large, sweeping flourish at the end.

Kable Bo Davis
Product Manager 25
Herbicide Branch
Registration Division (7505P)

Sub-label B:

GROUP	Z	HERBICIDE
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Avenger™ AG Burndown Herbicide
For control of Grasses and Broadleaf Weeds (both
Annual and Perennial)
In Crop and Non-Crop Areas

ACTIVE INGREDIENT: d-limonene.....	55%
OTHER INGREDIENTS:.....	45%
Total	100%

KEEP OUT OF REACH OF CHILDREN
CAUTION



FOR ORGANIC PRODUCTION

Net Contents: 1, 5 [or 2½ or 55] Gallons

{Front panel: optional marketing claims may be used on any panel}

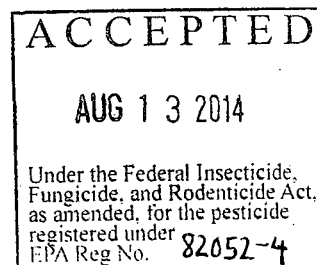
- OMRI or other organic listing logo
- Non-selective weed killer: controls most weeds, grasses & broadleaves
- Contains citrus oil
- Fast acting
- Made from oranges
- Patented formula
- Clean citrus scent
- Does not stain brick, concrete or pavement

[Label may include graphic representation consistent with labeled product use; e.g., "before", and "after" illustrations of use on Citrus canker.]

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EPA Est. No. 82052-GA-1

Manufactured by:
Cutting Edge Formulations, Inc.
3057 Summer Oak Place
Buford, GA 30518

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PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
CAUTION

Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing.

FIRST AID	
If on Skin or Clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If in Eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lens, if present, after the first 5 minutes. Then continue rinsing eye.• Call a poison control center or doctor for treatment advice
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For emergency information concerning this product, call the National Pesticide Information Center (NPIC) at 1-800-858-7378 seven days a week, 6:30 am to 4:30 pm Pacific Time. During other times, call your poison control center at 1-800-222-1222.	

Personal Protective Equipment (PPE): Applicators and other handlers must wear:

- Long sleeved shirt and pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves such as nitrile rubber, polyvinyl chloride (PVC) and viton.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if product gets inside. Then wash thoroughly and put on clean clothing.

PHYSICAL AND CHEMICAL HAZARDS

Combustible: Do not use or store near heat or open flame.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not use this product until you have read the entire label. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribe agency responsible for pesticide regulation.

Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted-entry interval. The requirements in this box apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 4 hours.

At the 20% dilution rate, do not apply within 7 days of harvest (7 day PHI).

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water), is:

- Long sleeved shirt and pants
- Shoes plus socks
- Protective eyewear
- Chemical resistant gloves such as nitrile rubber, polyvinyl chloride (PVC) and viton.

Non-Agricultural Use Requirements

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Product Information: Avenger AG is a broad spectrum weed killer that contains a citrus extract. It is non-selective and controls most annual and perennial weeds, both grasses and broadleaves. **For best performance, complete coverage of target weeds is necessary.** The product does not translocate. It will affect only those portions of plants that are coated with the spray solution. **Spray until thoroughly wet.**

Weed size influences product efficacy as performance is improved on smaller weeds. Targeted weeds should be six inches in height or less.

Environmental Conditions: Avenger AG is effective over a wide range of environmental conditions. Cool weather may slow the activity of Avenger AG. For best results, spray when ambient high temperatures are expected above 50°F and lows above freezing. On cooler days, spray during the warm part of the day.

Allow heavy dew to evaporate prior to Avenger AG applications. Do not apply if windy conditions exist or rain is expected within 2 hours.

Spray Drift Management: Do not allow the herbicide solution to contact desirable vegetation as small amounts can cause severe damage to crops and other desirable plants.

Mixing of Avenger AG: Fill the spray tank ½ full with clean water. Add Avenger AG while agitating. Then fill remainder with water.

Tank Mixing of Avenger AG: Fill the spray tank ½ full with clean water. Add any dry formulations and then liquid formulations to the tank. Add Avenger AG while agitating. Then fill remainder with water.

Tank Mix Combinations: When Avenger AG is used in combination with any other products, refer to the respective product labels for rates and methods of application, proper timing, restrictions and precautions.

Compatibility Testing: If the compatibility with another product is not known, a jar test or physical compatibility study should be conducted before tank mixtures are made.

Application Instructions and Rates

Mix this product in clean water and apply to the foliage of vegetation to be controlled. Spray until weeds are thoroughly wet. Because the underside of the weed leaf may be more susceptible, side sprays are recommended. Do not apply this product through any type of irrigation system or by aerial application.

Broadcast Applications

Apply Avenger AG at a ratio of 1 part Avenger AG into 6 parts of water (see Table 1). Spray until thoroughly wet.

Table 1 - Broadcast Application: Mixing Rates for 1:6 Dilution		
Final Spray Volume	Amount of Avenger AG 1:6 ratio (14% dilution rate)*	Amount of Water
1 Gal	20 fl. oz.	108 fl. oz.
60	8½ gal	51½ gal
100 Gal	14 gal	86 gal
*Percent Avenger AG Burndown Herbicide in water. (Equivalent to 8% d-limonene active ingredient in water.)		

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Spot Applications (Spot Treatments)

In cool situations or for tough to kill weeds, a more concentrated spray of d-limonene may be needed. In such situations, a 20% dilution rate of Avenger AG, a ratio of 1 part Avenger AG into 4 parts of water may be used up to one (1) week before harvest (see Table 2).

Control or Suppression of Emerged Weeds in Row Middles (banded treatment) and Between Vines and Trees. Apply Avenger AG at a 14-20% dilution rate.

AVOID CONTACT WITH CROP – Intentional or accidental contact (including drift) of Avenger AG with the crop may result in severe damage or loss of the crop.

Apply by directing spray between the rows and using hooded sprayers to prevent spray contact with crop plants. Keep hoods adjusted to insure adequate contact with weeds while shielding the crop from the herbicide. To minimize drift, do not use nozzles or nozzle configurations with produce fine droplets (mist).

Pre-harvest Desiccation of Vegetable Vines

Apply Avenger AG at a 14-20% dilution rate to aid in the desiccation of vegetable vines prior to harvest operations. More than one application may be necessary to obtain sufficient desiccation.

Table 2 - Spot Applications: Mixing Rates for 1:4 Dilution		
Final Spray Volume	Amount of Avenger AG 1:4 ratio (20% dilution rate)*	Amount of Water
1 gal	26 fl. oz.	102 fl. oz.
60 gal	12 gal	48 gal
100 gal	20 gal	80 gal
*Percent Avenger AG Burndown Herbicide in water. (Equivalent to 11% d-limonene active ingredient in water.)		

Directions for Minimizing Spray Drift:

Spray directly on weeds (or apply with hooded spray equipment to prevent the spray from contacting crop.) Use equipment to direct spray on to the weeds. Do not use mist blowers or any other application techniques, which may result in drift on to desirable vegetation. **Do not allow spray solution to drip, splash or drift on to desirable vegetation; small amounts can cause severe damage to crops.** Use low drift, low pressure nozzles.

These procedures will also reduce the potential for off-target drift and for crop injury:

- Spray hoods must be operated on the ground or skimming across ground surface.
- Operate at ground speeds of no greater than 5 miles per hour to avoid bouncing of the spray hoods.
- Apply when wind speeds are 10 miles per hour or less.

Avenger AG is intended for non-selective weed control in and around all crop and non-crop areas

CROPS

Crop	Broadcast or Banded Treatment Instructions	Spot Treatment Instructions	Restrictions and Other Comments
Bearing and Non-Bearing Tree, Vine and Berry Crops, including: Berries* Citrus Grapes (wine, table, raisin) Nuts Olives Pomegranate Pome Fruit Stone Fruit	Apply at a 14-20% dilution rate of Avenger AG. Do not exceed 8.5 gallons of product per acre per application..	In cool situations or for tough to kill weeds, a more concentrated spray of d-limonene may be needed. In such situations, spot treatments with a 20% dilution rate of Avenger AG, a ratio of 1 part Avenger AG into 4 parts of water may be used (see Table 2). Do not exceed 8.5 gallons of product per acre per application.	Restrictions: Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with crop foliage, green bark of trunk or branches, fruit or other parts of trees, canes and vines.
Vegetable Crops, including: Artichokes Asparagus Brassica (cole) Bulb Vegetables Cucurbits Fruiting Vegetables, such as: tomato and pepper Leafy Vegetables Legume Vegetables Root and Tuber Vegetables Strawberries	Make pre-emergence or at planting applications of Avenger AG, or apply to burn down winter foliage; applications must be made before seedling emergence to avoid severe injury. Allow at least 2 days between application and transplanting. Apply at a 14-20% dilution rate of Avenger AG. Do not exceed 8.5 gallons of product per acre per application.	In cool situations or for tough to kill weeds, a more concentrated spray of Avenger AG may be needed. In such situations, spot treatments with a 20% dilution rate of Avenger AG, a ratio of 1 part Avenger AG into 4 parts of water may be used (see Table 2). Do not exceed 8.5 gallons of product per acre per application.	Restrictions: Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with crop foliage.
Herb and Spices:	Make pre-emergence or at planting applications of Avenger AG, or apply to burn down winter foliage; applications must be made before seedling emergence to avoid severe injury. Allow at least 2 days between application and transplanting. Apply at a 14-20% dilution rate of Avenger AG. Do not exceed 8.5 gallons of product per acre per application.	In cool situations or for tough to kill weeds, a more concentrated spray of d-limonene may be needed. In such situations, spot treatments with a 20% dilution rate of Avenger AG, a ratio of 1 part Avenger AG into 4 parts of water may be used (see Table 2). Do not exceed 8.5 gallons of product per acre per application.	Restrictions: Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with crop foliage.
Non-Crop Areas: Including borders, driveways, roadways, sidewalks, around mature landscaping, trees, shrubs, foliage and ornamentals, around buildings, in greenhouses and nurseries, and around flower beds.	Apply at a 14-20% dilution rate of Avenger AG. Do not exceed 8.5 gallons of product per acre per application.	In cool situations or for tough to kill weeds, a more concentrated spray of Avenger AG may be needed. In such situations, spot treatments with a 20% dilution rate of Avenger AG, a ratio of 1 part Avenger AG into 4 parts of water may be used (see Table 2). Do not exceed 8.5 gallons of product per acre per application.	Restrictions: Do not apply this product through any type of irrigation system or by aerial application. Spray until weeds are thoroughly wet. Follow directions for Minimizing Spray drift. Avoid contact of herbicide solution, spray drift or mist with non-target foliage, green bark of trunk or branches, fruit or other parts of trees, canes and vines.

* Not for use in California on berries of any kind.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

PESTICIDE STORAGE

Store at room temperature. Reclose container of unused portions of Avenger AG.

PESTICIDE DISPOSAL

To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING

[Plastic containers with capacities equal to or less than 5 gallons:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinance. If burned, stay out of smoke.

[Plastic containers with capacities greater than 5 gallons:] Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank, or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling if available or puncture and dispose of in a sanitary landfill, or by incineration. Do not burn, unless allowed by state and local ordinance. If burned, stay out of smoke.

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Conditions of Sale and Warranty

The **Directions For Use** of this product reflects the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result, because of factors such as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of Cutting Edge Formulations or the Seller. All such risks are assumed by the Buyer.

To the extent consistent with applicable law, Cutting Edge Formulations warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. To the extent consistent with applicable law, Cutting Edge Formulations makes no other express or implied warranty of fitness or merchantability or any other express or implied warranty. To the extent consistent with applicable law, in no case shall Cutting Edge Formulations or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. To the extent consistent with applicable law, Cutting Edge Formulations and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of Cutting Edge Formulations.